

CLIPPEDIMAGE= GB002240284A

PUB-NO: GB002240284A

DOCUMENT-IDENTIFIER: GB 2240284 A

TITLE: Catalytic system and process for producing synthesis gas by reforming light

hydrocarbons with CO₂

PUBN-DATE: July 31, 1991

INVENTOR-INFORMATION:

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INT-CL_(IPC): B01J023/40; C01B003/40

EUR-CL (EPC): B01J023/40; C01B003/40, B01J023/63

US-CL-CURRENT: 502/303, 502/304, 502/333, 502/334

ABSTRACT:

A catalytic system for the production of synthesis gas by reacting light hydrocarbons, preferably methane, with CO₂ is described formed from: - one or more

compounds of metals of the platinum group, preferably chosen from rhodium, ruthenium

and iridium; - a support consisting of inorganic compounds chosen from oxides and/or

spinels of aluminium, magnesium, zirconium, silicon, cerium and/or lanthanum, possibly in the presence of alkaline metals, in which the weight percentage of the

metal or metals of the platinum group in the catalytic system is between 0.01 and

20%, and preferably between 0.1 and 5%.

CLIPPEDIMAGE= JP356124442A
PAT-NO: JP356124442A
DOCUMENT-IDENTIFIER: JP 56124442 A
TITLE: CATALYST FOR CLEANING OF EXHAUST GAS

PUBN-DATE: September 30, 1981

INVENTOR-INFORMATION:

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APPL-NO: JP55028953

APPL-DATE: March 6, 1980

INT-CL_(IPC): B01J023/56; B01D053/36 ; B01J021/06 ; B01J021/10 ; B01J023/10
US-CL-CURRENT: 502/304

ABSTRACT:

PURPOSE: To clean all of harmful components present in exhaust gas with high efficiency by attaching such catalyst components as cerium oxide, platinum, and palladium to a support obtained by forming a porous layer of an oxide on the surface of a honeycomb structure, etc.

CONSTITUTION: A support 2 of a porous layer composed of zirconium oxide powder or a mixture of the zirconium oxide powder and one of alumina, alumina-magnesia spinel, and cerium oxide powder is formed on the surface of a fire-proof base material 1 of a honeycomb structure, etc. And, a catalyst component 3 composed of any one or both of cerium oxide and platinum or palladium is attached to the said support. The catalyst thus obtained is excellent in durability and capable of cleaning NO_x, CO, and hydrocarbons present in exhaust gas discharged from internal combustion engine, etc., with high efficiency.

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